

FORM PTO-1449		DOCKET NUMBER FGT 384CON		APPLICATION NUMBER			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANT(S) GOPICHANDRA SURNILLA					
		FILING DATE		GROUP ART UNIT			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
ES	3,696,318	10-10-72	Boyd et al				
ES	3,696,618	10-10-72	Boyd et al				
ES	3,969,932	7-20-76	Rieger et al				
ES	4,033,122	7-5-77	Masaki et al				
ES	4,036,014	7-19-77	Ariga				
ES	4,046,126	9-77	Takemoto				
ES	4,051,673	10-77	Masaki				
ES	4,134,261	1-16-79	Iizuka et al				
ES	4,172,434	10-30-79	Coles				
ES	4,178,883	12-18-79	Herth				
ES	4,207,855	6-17-80	Phillips				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
ES	1496605	12-30-77	GB				
ES	55-29002	3-1-80	JP			Abstract only	
ES	55-49549	4-10-80	JP			Abstract only	
OTHER DOCUMENTS							
ES	JOE THEIS et al, "An Air/Fuel Algorithm To Improve The Nox Conversion Of Copper-Based Catalysts", SAE Technical Paper No. 922251, October 19-22, 1992, pp. 77-89						
ES	Y. KANEKO et al, "Effect of Air-Fuel Ratio Modulation on Conversion Efficiency of Three-Way Catalysts", INTER-INDUSTRY EMISSION CONTROL PROGRAM 2 (IIEC-2) PROGRESS REPORT NO. 4, SAE Technical Paper No. 780607, June 5-9, 1978, pp. 119-127						
ES	ALAN F. DIWELL, "Engineered Control Strategies For Improved Catalytic Control of Nox in Lean Burn Applications", SAE Technical Paper No. 881595, 1998, pp. 1-11						
EXAMINER ES			DATE CONSIDERED 10/28/04				

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
ES	4,251,989	2-24-81	Norimatsu et al				
ES	4,305,249	12-15-81	Schmid et al				
ES	4,550,704	11-85	Barho et al				
ES	4,622,809	11-18-86	Abthoff et al				
ES	4,690,116	9-1-87	Takahashi				
ES	4,854,123	8-8-89	Inoue et al				
ES	4,860,716	8-29-89	Deutschmann				
ES	4,884,066	11-28-89	Miyata et al				
ES	4,913,122	4-3-90	Uchida et al				
ES	4,964,272	10-23-90	Kayanuma				
ES	5,009,210	4-23-91	Nakagawa et al				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
ES	2090331	7-7-82	GB				
ES	62-97630	5-7-87	JP			Abstract only	
ES	62-117620	5-29-87	JP			Abstract only	
OTHER DOCUMENTS							
ES	ALLEN H. MEITZLER, "Application of Exhaust-Gas-Oxygen Sensors to the Study of Storage Effects in Automotive Three-Way Catalysts", SAE 800019, February 25-29, 1980, pp. 13-21						
ES	W.H. HOLL, "Air Fuel Control to Reduce Emissions, I. Engine-Emissions Relationships", SAE 800051, February 25-29, 1980, pp. 1-10						
ES	WEI-MING WANG, "Air-Fuel Control to Reduce Emissions, II. Engine-Catalyst Characterization Under Cyclic Conditions", SAE 800052, February 25-29, 1980, pp. 1-13						
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
ES	5,088,281	2-18-92	Izutani et al			
ES	5,097,700	3-24-92	Nakane			
ES	5,165,230	11-24-92	Kayanuma et al			
ES	5,174,111	12-29-92	Nomura et al			
ES	5,189,876	3-2-93	Hirota et al			
ES	5,201,802	4-13-93	Hirota et al			
ES	5,209,061	5-11-93	Takeshima			
ES	5,222,471	6-29-93	Stueven			
ES	5,233,830	8-10-93	Takeshima et al			
G	5,245,978	9-21-93	Orzel			
ES	5,267,439	12-7-93	Raff et al			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
ES	62-247176	10-28-87	JP			Abstract only
ES	64-53042	3-1-89	JP			Abstract only
ES	0 351 197	1-17-90	EP			
OTHER DOCUMENTS						
ES	CHRISTOPHER D. DE BOER et al, "Engineered Cntrol Strategies for Improved Catalytic Control of Nox in Lean Burn Applications", SAE 881595, October 10-13, 1988, pp. 3-10					
ES	TOOSHIKI YAMAMOTO et al, "Dynamic Behavior Analysis of Three Way Catalytic Reaction", JSAE 882072-882166, pp. 1-10					
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
ES	5,267,548	12-7-93	Rosenzopf et al				
ES	5,270,024	12-14-93	Kasahara et al				
ES	5,272,871	12-28-93	Oshima et al				
ES	5,325,664	7-5-94	Seki et al				
ES	5,331,809	7-26-94	Takeshima et al				
ES	5,335,538	8-9-94	Bilschke et al				
ES	5,357,750	10-25-94	Ito et al				
ES	5,375,415	12-27-94	Hamburg et al				
ES	5,377,484	1-3-95	Shimizu				
ES	5,402,641	4-4-95	Katoh et al				
ES	5,410,873	5-2-95	Tashiro				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
ES	2-30915	2-1-90	JP			Abstract only	
ES	2-33408	2-2-90	JP			Abstract only	
ES	2-207159	8-16-90	JP			Abstract only	
OTHER DOCUMENTS							
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
SS	5,412,945	5-9-95	Kato et al				
SS	5,412,946	5-9-95	Oshima et al				
SS	5,414,994	5-16-95	Cullen et al				
SS	5,419,122	5-30-95	Tab et al				
SS	5,423,181	6-13-95	Kato et al				
SS	5,433,074	7-18-95	Seto et al				
SS	5,437,153	8-1-95	Takeshima et al				
SS	5,448,887	9-12-95	Takeshima				
SS	5,450,722	9-12-95	Takeshima et al				
SS	5,452,576	9-26-95	Hamburg et al				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
SS	3-135417	6-10-91	JP			Abstract only	
SS	0 444 783	9-4-91	EP				
SS	0 503 882	9-16-92	EP				
OTHER DOCUMENTS							
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
ES	5,472,673	12-5-95	Goto et al				
ES	5,473,887	12-12-95	Takeshima et al				
ES	5,473,890	12-12-95	Takeshima et al				
ES	5,479,898	1-2-96	Cullen et al				
ES	5,483,795	1-16-96	Katoh et al				
ES	5,496,228	3-5-96	Takata et al				
ES	5,497,745	3-12-96	Cullen et al				
ES	5,544,482	8-13-96	Matsumoto et al				
ES	5,551,231	9-3-96	Tanaka et al				
ES	5,577,382	11-26-96	Kihara et al				
ES	5,595,060	1-21-97	Togai et al				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
ES	5-26080	2-2-93	JP			Abstract only	
ES	5-106493	4-27-93	JP			Abstract only	
ES	5-106494	4-27-93	JP			Abstract only	
OTHER DOCUMENTS							
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
ES	5,598,703	2-4-97	Hamburg et al				
ES	5,622,047	4-22-97	Yamashita et al				
ES	5,626,014	5-6-97	Hepburn et al				
ES	5,626,117	5-6-97	Wright et al				
ES	5,647,207	7-15-97	Grotjahn et al				
ES	5,655,363	8-12-97	Ito et al				
ES	5,657,625	8-19-97	Koga et al				
ES	5,693,877	12-2-97	Ohsuga et al				
ES	5,713,199	2-3-98	Takeshima et al				
ES	5,715,679	2-10-98	Asanuma et al				
ES	5,722,236	3-3-98	Cullen et al				
FOREIGN PATENT DOCUMENTS							
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ES	0 580 389	1-26-94	EP				
ES	6-58139	3-1-94	JP			Abstract only	
ES	6-264787	9-20-94	JP			Abstract only	
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
ES	5,724,808	3-10-98	Ito et al				
ES	5,727,522	5-17-98	Otani et al				
ES	5,732,554	3-31-98	Sasaki et al				
ES	5,735,119	4-7-98	Asanuma et al				
ES	5,740,669	4-21-98	Kinugasa et al				
ES	5,743,084	4-28-98	Hepburn				
ES	5,746,049	5-5-98	Cullen et al				
ES	5,746,052	5-5-98	Kinugasa et al				
ES	5,752,492	5-19-98	Kato et al				
ES	5,771,685	6-30-98	Hepburn				
ES	5,771,686	6-30-98	Pischinger et al				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
ES	7-35016	2-3-95	JP			Abstract only	
ES	7-97941	4-11-95	JP			Abstract only	
ES	2283111	4-26-95	GB				
OTHER DOCUMENTS							
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
ES	5,778,666	7-14-98	Cullen et al			
ES	5,792,436	8-11-98	Feeley et al			
ES	5,802,843	9-8-98	Kurihara et al			
ES	5,803,048	9-8-98	Yano et al			
ES	5,832,722	11-10-98	Cullen et al			
ES	5,842,340	12-1-98	Bush et al			
ES	5,865,027	2-2-99	Hanafusa et al			
ES	5,930,992	8-99	Esch et al			
ES	5,938,715	8-17-99	Zang et al			
ES	5,950,603	9-99	Cook et al			
ES	5,970,707	10-26-99	Sawada et al			
ES	5,974,793	11-2-99	Kinugasa et al			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
ES	7-166851	6-27-95	JP			Abstract only	
ES	196 07 151	7-10-97	DE			Abstract only	
ES	98/27322	6-25-98	WIPO				

OTHER DOCUMENTS	

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
ES	5,974,788	11-2-99	Hepburn et al			
ES	5,974,791	11-2-99	Hirota et al			
ES	5,983,627	11-16-99	Asik			
ES	5,992,142	11-30-99	Pott			
ES	5,996,338	12-7-99	Hirota			
ES	6,012,428	1-11-00	Yano et al			
ES	6,014,859	1-18-00	Yoshizaki et al			
ES	6,023,929	2-15-00	Ma			
ES	6,058,700	5-9-00	Yamashita et al			
ES	6,158,218	12-12-00	Herold et al			
ES	6,189,316	2-20-01	Surnilla et al			
ES	6,247,445	6-19-01	Langer			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
ES	10107158	8-23-01	DE			Abstract only	

OTHER DOCUMENTS	

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
ES	6,276,138	8-21-01	Welch			
ES	6,305,344	10-31-01	Perry			
ES	6,345,496	2-12-02	Fuwa et al			
ES	6,349,710	2-26-02	Kawai et al			
ES	6,360,713	3-26-02	Kolmanovsky et al			
ES	6,367,443	4-9-02	Bassu et al			
ES	6,382,193	5-7-02	Boyer et al			
ES	6,389,806	5-21-02	Glugla et al			
ES	6,408,618	6-25-02	Ide			
ES	6,415,601	7-9-02	Glugla et al			
ES	6,467,259	10-22-02	Surnilla et al			
ES	6,543,219	4-8-03	Surnilla			
ES	6,619,241	9-16-03	Otterspeer et al			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS	

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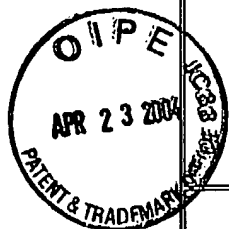
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
ES	6,546,910	4-15-03	Tanaka et al			
ES	6,550,240	4-22-03	Kolmanovsky et al			
ES	6,568,177	5-27-03	Surnilla			
ES	2001/0015065	8-23-01	Ide			

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		APPLICANT(S) GOPICHANDRA SURNILLA				
		FILING DATE March 24, 2004		GROUP ART UNIT		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
ES	5,179,924	1-19-93	Manaka			
	5,437,253	8-1-95	Huffmaster et al			
	5,483,941	1-16-96	Cullen et al			
	5,492,094	2-20-96	Cullen et al			
	5,628,299	5-13-97	Marzonia et al			
	5,672,817	9-30-97	Sagisaka et al			
	6,116,213	9-12-00	Yasui et al			
	6,244,242	6-12-01	Grizzle et al			
	6,324,835	12-4-01	Surnilla et al			
	6,327,850	12-11-01	Yasui et al			
	6,505,464	1-14-03	Isobe et al			
	6,539,784	4-1-03	King et al			
	✓	6,615,804	9-9-03	Matthews et al		
ES	2003/0221664	12-4-03	Surnilla			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
ES	2056556	7-2-80	GB			
OTHER DOCUMENTS						
EXAMINER ES			DATE CONSIDERED 10/28/04			